

Patrick Nuernberger

List of Publications by Year in descending order

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85
papers

2,174
citations

201674

27
h-index

233421

45
g-index

89
all docs

89
docs citations

89
times ranked

2213
citing authors

#	ARTICLE	IF	CITATIONS
1	Femtosecond quantum control of molecular dynamics in the condensed phase. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 2470.	2.8	263
2	Optimal Control of Photoisomerization. <i>Physical Review Letters</i> , 2005, 94, 068305.	7.8	161
3	Ultrafast Bidirectional Photoswitching of a Spiropyran. <i>Journal of the American Chemical Society</i> , 2010, 132, 16510-16519.	13.7	128
4	Multidimensional Electronic Spectroscopy of Photochemical Reactions. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11368-11386.	13.8	96
5	Removing cross-phase modulation from midinfrared chirped-pulse upconversion spectra. <i>Optics Express</i> , 2009, 17, 18738.	3.4	88
6	Coherent two-dimensional ultraviolet spectroscopy in fully noncollinear geometry. <i>Optics Letters</i> , 2010, 35, 4178.	3.3	72
7	Reaction Dynamics of a Molecular Switch Unveiled by Coherent Two-Dimensional Electronic Spectroscopy. <i>Journal of the American Chemical Society</i> , 2011, 133, 13074-13080.	13.7	59
8	Femtosecond pump- π -shaped-dump quantum control of retinal isomerization in bacteriorhodopsin. <i>Chemical Physics Letters</i> , 2006, 433, 211-215.	2.6	58
9	Femtosecond quantum control of molecular bond formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10366-10370.	7.1	54
10	Ring-Closure and Isomerization Capabilities of Spiropyran-Derived Merocyanine Isomers. <i>Journal of Physical Chemistry A</i> , 2011, 115, 3924-3935.	2.5	53
11	Multidimensional spectroscopy of photoreactivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 4764-4769.	7.1	53
12	Photochemically Induced Ring Opening of Spirocyclopropyl Oxindoles: Evidence for a Triplet 1,3-Diradical Intermediate and Deracemization by a Chiral Sensitizer. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21640-21647.	13.8	53
13	Analysis of femtosecond quantum control mechanisms with colored double pulses. <i>Physical Review A</i> , 2006, 74, .	2.5	50
14	Ultrafast UV-Induced Photoisomerization of Intramolecularly H-Bonded Symmetric $\hat{\text{I}}^2$ -Diketones. <i>Journal of the American Chemical Society</i> , 2014, 136, 14981-14989.	13.7	49
15	Monitoring ultrafast intramolecular proton transfer processes in an unsymmetric $\hat{\text{I}}^2$ -diketone. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8459-8466.	2.8	45
16	Ultrafast Photochemistry of a Manganese-Tricarbonyl CO-Releasing Molecule (CORM) in Aqueous Solution. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 596-602.	4.6	42
17	Ultrafast exciton dynamics after Soret- or Q-band excitation of a directly $\hat{\text{I}}^2, \hat{\text{I}}^2$ -linked bisporphyrin. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 8038.	2.8	37
18	Competitive solvent-molecule interactions govern primary processes of diphenylcarbene in solvent mixtures. <i>Nature Communications</i> , 2016, 7, 12968.	12.8	36

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19	Photoisomerization among ring-open merocyanines. I. Reaction dynamics and wave-packet oscillations induced by tunable femtosecond pulses. <i>Journal of Chemical Physics</i> , 2014, 140, 224310.	3.0	35
20	Generation of shaped ultraviolet pulses at the third harmonic of titanium-sapphire femtosecond laser radiation. <i>Applied Physics B: Lasers and Optics</i> , 2007, 88, 519-526.	2.2	33
21	Generalized magic angle for time-resolved spectroscopy with laser pulses of arbitrary ellipticity. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 124014.	1.5	33
22	Generation of polarization-shaped ultraviolet femtosecond pulses. <i>Optics Letters</i> , 2008, 33, 803.	3.3	32
23	Benzannulated Re(λ -NHC complexes: synthesis, photophysical properties and antimicrobial activity. <i>Dalton Transactions</i> , 2017, 46, 15269-15279.	3.3	32
24	Ultrafast Multisequential Photochemistry of 5-Diazo Meldrum's Acid. <i>Journal of the American Chemical Society</i> , 2010, 132, 15213-15222.	13.7	31
25	Direct mid-infrared femtosecond pulse shaping with a calomel acousto-optic programmable dispersive filter. <i>Optics Letters</i> , 2010, 35, 3565.	3.3	30
26	Extended Hydrogen Bond Networks for Effective Proton-Coupled Electron Transfer (PCET) Reactions: The Unexpected Role of Thiophenol and Its Acidic Channel in Photocatalytic Hydroamidations. <i>Journal of the American Chemical Society</i> , 2021, 143, 724-735.	13.7	30
27	Femtosecond study on the isomerization dynamics of NK88. I. Ground-state dynamics after photoexcitation. <i>Journal of Chemical Physics</i> , 2006, 125, 044512.	3.0	28
28	Femtosecond study on the isomerization dynamics of NK88. II. Excited-state dynamics. <i>Journal of Chemical Physics</i> , 2006, 125, 044513.	3.0	28
29	Tracing the Steps of Photoinduced Chemical Reactions in Organic Molecules by Coherent Two-Dimensional Electronic Spectroscopy Using Triggered Exchange. <i>Physical Review Letters</i> , 2013, 110, 148305.	7.8	25
30	Properties of wave packets deduced from quantum control fitness landscapes. <i>Europhysics Letters</i> , 2007, 80, 53001.	2.0	23
31	Excited-state intramolecular proton transfer of 2-acetyllindan-1,3-dione studied by ultrafast absorption and fluorescence spectroscopy. <i>Structural Dynamics</i> , 2016, 3, 023606.	2.3	23
32	Strong Ligand-Protein Interactions Revealed by Ultrafast Infrared Spectroscopy of CO in the Heme Pocket of the Oxygen Sensor FixL. <i>Journal of the American Chemical Society</i> , 2011, 133, 17110-17113.	13.7	22
33	Multiply Excited Vibration of Carbon Monoxide in the Primary Docking Site of Hemoglobin Following Photolysis from the Heme. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2077-2081.	4.6	21
34	Polarization-shaped femtosecond laser pulses in the ultraviolet. <i>Journal of Optics</i> , 2009, 11, 085202.	1.5	19
35	Photoisomerization among ring-open merocyanines. II. A computational study. <i>Journal of Chemical Physics</i> , 2014, 140, 224311.	3.0	19
36	Identification of photofragmentation patterns in trihalide anions by global analysis of vibrational wavepacket dynamics in broadband transient absorption data. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 33287-33302.	2.8	19

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37	Suppression of perturbed free-induction decay and noise in experimental ultrafast pump-probe data. <i>Optics Letters</i> , 2009, 34, 3226.	3.3	18
38	A comparative study on chirped-pulse upconversion and direct multichannel MCT detection. <i>Optics Express</i> , 2013, 21, 30693.	3.4	15
39	Coherent two-dimensional electronic spectroscopy in the Soret band of a chiral porphyrin dimer. <i>New Journal of Physics</i> , 2013, 15, 025006.	2.9	15
40	Thermodynamic driving forces of guest confinement in a photoswitchable cage. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 7321-7332.	2.8	15
41	Differences and analogies between linearly chirped and colored double pulses in the femtosecond regime. <i>Optics Communications</i> , 2009, 282, 227-235.	2.1	13
42	Impact of Pulse Polarization on Coherent Vibrational Ladder Climbing Signals. <i>Journal of Physical Chemistry B</i> , 2011, 115, 5554-5563.	2.6	13
43	Initiation and control of catalytic surface reactions with shaped femtosecond laser pulses. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 1185-1199.	2.8	13
44	Quantum Control Spectroscopy of Competing Reaction Pathways in a Molecular Switch. <i>Journal of Physical Chemistry A</i> , 2014, 118, 11364-11372.	2.5	13
45	Rotation-translation device for condensed-phase spectroscopy with small sample volumes. <i>Review of Scientific Instruments</i> , 2006, 77, 083113.	1.3	12
46	Precise and rapid detection of optical activity for accumulative femtosecond spectroscopy. <i>Optics Express</i> , 2012, 20, 11838.	3.4	12
47	Subpicosecond Kerr-Gate Spectrofluorometry. <i>Methods in Molecular Biology</i> , 2014, 1076, 321-336.	0.9	12
48	Ultrafast Dynamics of a Triazene: Excited-State Pathways and the Impact of Binding to the Minor Groove of DNA and Further Biomolecular Systems. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1986-1992.	4.6	11
49	Ultrafast Dynamics of a Fluorescent Tetrazolium Compound in Solution. <i>ChemPhysChem</i> , 2018, 19, 138-147.	2.1	11
50	Unveiling Luminescent Ir ^I and Rh ^I Heterocyclic Carbene Complexes: Structure, Photophysical Specifics, and Cellular Localization in the Endoplasmic Reticulum. <i>Chemistry - A European Journal</i> , 2021, 27, 6783-6794.	3.3	10
51	Molecular dump processes induced by chirped laser pulses. <i>Journal of Chemical Physics</i> , 2008, 129, 074303.	3.0	9
52	Unobtrusive interferometer tracking by path length oscillation for multidimensional spectroscopy. <i>Optics Express</i> , 2009, 17, 12379.	3.4	9
53	Similarities and Differences in the Optical Response of Perylene-Based Hetero-Bichromophores and Their Monomeric Units. <i>ChemPhysChem</i> , 2013, 14, 1413-1422.	2.1	9
54	Ultrafast photofragment ion spectroscopy of the Wolff rearrangement in 5-diazo Meldrum's acid. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 7290.	2.8	8

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55	How a linear triazene photoisomerizes in a volume-conserving fashion. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 28075-28087.	2.8	8
56	How Protic Solvents Determine the Reaction Mechanisms of Diphenylcarbene in Solution. <i>Journal of Organic Chemistry</i> , 2019, 84, 11450-11457.	3.2	8
57	Optical discrimination of racemic from achiral solutions. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 6340-6346.	2.8	7
58	Ultrafast Photogeneration of a Tetrazolinyl Radical. <i>ChemPhysChem</i> , 2015, 16, 3143-3146.	2.1	6
59	Generating laser-pulse enantiomers. <i>Optics Express</i> , 2017, 25, 21735.	3.4	6
60	Femtosecond Spectroscopy from the Perspective of a Global Multidimensional Response Function. <i>Accounts of Chemical Research</i> , 2009, 42, 1433-1441.	15.6	5
61	Impact of kilobar pressures on ultrafast triazene and thiocyanine photodynamics. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 18169-18175.	2.8	5
62	Excited-State Proton Transfer Dynamics of a Superacid in Acetone-Water Mixtures. <i>ChemPhotoChem</i> , 2022, 6, .	3.0	5
63	Generation of femtosecond pulse sequences in the ultraviolet by spectral phase modulation. , 2006, 6187, 151.		3
64	Ultrafast charge-transfer dynamics of donor-substituted truxenones. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11081.	2.8	3
65	Temporally shaped Laguerre-Gaussian femtosecond laser beams. <i>Applied Optics</i> , 2018, 57, 3624.	1.8	3
66	Ionic Liquids [M ³⁺][A ³⁻] ₃ with Three-Valent Cations and Their Possible Use to Easily Separate Rare Earth Metals. <i>Chemistry - A European Journal</i> , 2021, 27, 13052-13058.	3.3	3
67	Sensitivity of Isomerization Kinetics of 1,3,5-Triphenylformazan on Cosolvents Added to Toluene. <i>Journal of Organic Chemistry</i> , 2021, , .	3.2	3
68	Ultrafast photochemistry of a molybdenum carbonyl-nitrosyl complex with a triazacyclononane coligand. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 24187-24199.	2.8	2
69	Femtosecond laser-assisted catalytic surface reactions of syngas and their optimization by tailored laser pulses. <i>Springer Series in Chemical Physics</i> , 2007, , 237-239.	0.2	2
70	Relaxation Dynamics of the Triazene Compound Berenil in DNA-Minor-Groove Confinement after Photoexcitation. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 5203-5211.	5.3	1
71	Tracing absorption and emission characteristics of halogen-bonded ion pairs involving halogenated imidazolium species. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 7480-7494.	2.8	1
72	Simultaneous observation of ultrafast ligand dissociation and docking-site trapping in heme proteins using upconversion infrared spectroscopy. , 2010, , .		0

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73	Exploring Higher-Lying Electronic States of a Molecular Switch by Coherent Triggered-Exchange 2D Electronic Spectroscopy. EPJ Web of Conferences, 2013, 41, 05001.	0.3	0
74	Femtosecond Mid-Infrared Study of the Aqueous Solution Photochemistry of a CO-Releasing Molecule (CORM). EPJ Web of Conferences, 2013, 41, 05004.	0.3	0
75	Precise and Rapid Detection of Optical Activity for Accumulative Femtosecond Spectroscopy. EPJ Web of Conferences, 2013, 41, 12011.	0.3	0
76	The Ultrafast Wolff Rearrangement in the Gas Phase. , 2014, , .		0
77	Elucidating photodynamics with ultrafast pulse sequences: pump-repump, multidimensional spectroscopy, and beyond. Proceedings of SPIE, 2015, , .	0.8	0
78	Exploring the Ultrafast Excited-State Intramolecular Proton Transfer (ESIPT) of \hat{I}^2 -Diketones in the deep-UV. , 2016, , .		0
79	LÃ¶sungsmittelmolekÃ¼le als Reaktionshelfer. Nachrichten Aus Der Chemie, 2017, 65, 992-996.	0.0	0
80	Surface Femtochemistry: Investigation and Optimization of Bond-Forming Chemical Reactions. Springer Series in Chemical Physics, 2009, , 445-447.	0.2	0
81	Photoswitching cycle of a nitro-substituted spiropyran: Ring-opening and ring-closure dynamics. , 2010, , .		0
82	Multiply excited vibrational states of docking-site CO simultaneously observed with ground-state bleach after photolysis from heme proteins. , 2010, , .		0
83	Discriminating Racemic from Achiral Solutions with Femtosecond Accumulative Spectroscopy. , 2014, , .		0
84	Discriminating Racemic from Achiral Solutions with Femtosecond Accumulative Spectroscopy. Springer Proceedings in Physics, 2015, , 369-372.	0.2	0
85	The Ultrafast Wolff Rearrangement in the Gas Phase. Springer Proceedings in Physics, 2015, , 180-183.	0.2	0